OHD-CORE-CHPS-4.1.a Install Instructions

Release Date: 09/26/14
Release Type: Scheduled
CHPS Build: 5.0.1
OHD-CORE Build: 4.1.a
OHD-CORE Build and Package Date: 9/10/2014
Tested against FEWS: 2014.01 build 48767, patched from 47633

Introduction

These instructions describe the installation procedure to update OHD-CORE. If you have any questions during the installation, please contact the HSD CHPS Support Group. The following sections are included to guide one through the installation steps and, if necessary, rolling back an installation.

Installation Instructions

1. Retrieve and Install the OHD-CORE-CHPS-4.1.a Package
2. Standalone Installation and Testing
3. Operator Client Installation and Testing for Dev/Test purposes
4. FEWS Forecast Shell Installation and Testing for Dev/Test purposes
5. Operator Client Installation for your Operational systems
6. FEWS Forecast Shell Installation for your Operational systems

Rolling Back an OHD Release

1. Stand Alone (SA)
2. Operator Client (OC)
3. FEWS Forecast Shell (FSS)

The ohdPlugins directory (../OHD-CORE-CHPS-4.1.a/ohd/plugins) includes a script for executing OHD plugins (e.g. graphics generator) named *fews_ohdPlugins.sh*. This is a modified fews.sh script and the contents added by OHD **MUST** be used for starting up FEWS with an ohd plugin. You can either use our script to start FEWS or alternatively you can add the contents in between ***# start - added for running ohd-plugins*** and ***# finish - added for running ohd-plgins*** to you default fews.sh script.

Commands that have to be entered will be displayed in a fixed width font like this:

```
$ ls –l /awips/chps_share/
```

Assumptions

It is assumed that the RFC is at FEWS 2014.01 build 48767, patched from 47633 and OHD-CORE-CHPS-3.3.a.

New Elements

Rating Curve Tool (separate installation not required)

1. *Retrieve and Install the OHD-CORE-CHPS-4.1.a package*

1.1. Log in to CHPS1 as user *fews*. Navigate to the CHPS-5.0.1 directory.

1.1.1. `$ [fews@chps1] cd /awips/chps_share/install/Sep2014/CHPS-5.0.1/`

1.2. Retrieve the package, based on the type of installation:

1.2.1. **CHPS 5.0.1 system multi-application release -** retrieve the package from the folder into which the individual application packages were extracted (e.g. `SEP2014/CHPS-5.0.1/release-package.OHD-CORE-CHPS-4.1.a.20140910.tar.gz`)

1.2.2. **only the OHD Core CHPS application -** navigate to the CHPS-4.1.a directory and retrieve the release package from the ftp server using *wget*

1.2.2.1.1. `[fews@chps1]$ wget http://165.92.28.30/release/CHPS/chps-4.1.a/release-package.OHD-CORE-CHPS-4.1.a.20140910.tar.gz`

1.3. Untar the package:

1.3.1. [fews@chps1] `$ tar -xvpf release-package.OHD-CORE-CHPS-4.1.a.20140910.tar.gz`

1.4. Check the OHD-CORE version on some of the models. Make sure it's at 4.1.a. Stop installation and contact HSD if version differs.

1.4.1. `$ cd OHD-CORE-CHPS-4.1.a/ohd/bin`

1.4.2. `$ ./resj -V`

1.5. From here on the path /awips/chps_share/install/Sep2014/CHPS-5.0.1/OHD-CORE-CHPS-4.1.a will be referred to as <4.1.a>.

1.6. Once complete, you may move onto standalone installation and testing.

2. *Standalone Installation and Testing*

2.1. Log in to your Dev/Test system as user fews.

2.2. Create an up-to-date Standalone client for testing.

2.3. Make a link to point to the downloaded software inside the SA's Models directory. Edit the SA global properties file to point OHDBINDIR to the bin.

2.3.1. `$ cd /awips/chps_share/sa/<user>/<new standalone>/Models/ohd`

2.3.2. `$ rm bin`

2.3.3. `$ ln -s <4.1.a>/ohd/bin bin`

2.4. Create a link for the OHD FEWS explorer plugins at the same level as the FEWS bin and jre.

2.4.1. `$ cd /awips/chps_share/sa/<user>/`

2.4.2. `$ ln -s <4.1.a>/ohd/plugins ohdPlugins`

2.5. Test to make sure all workflows complete as expected. Raise any issues with HSD through FogBugz. You may move onto the next step once satisfied with Standalone testing.

3. *Operator Client Installation and Testing for **Dev/Test** purposes*

NOTE: These instructions will walk you through installation and testing using a Dev/Test system. **Perform these actions using your Dev/Test OC Client.**

3.1. Log in to your system as user fews.

3.2. Verify that your Dev/Test OC client is set up properly for testing. (See the HSD FogBugz Wiki article http://schuylkill.nws.noaa.gov:7069/default.asp?W115 on how to ***Configure an OC for DevTest(789) system***).

3.3. Make a link to point to the downloaded OHD-CORE software under the OC's Models directory.

3.3.1. `$ cd /awips/chps_share/oc/<user>/<DevTest operator client>/Models/ohd`

3.3.2. `$ rm bin`

3.3.3. `$ ln –s <4.1.a>/ohd/bin bin`

3.4. Make a link for the OHD FEWS explorer plugins at the same level as the FEWS bin and jre.

3.4.1. `$ cd /awips/chps_share/oc/<user>/`

3.4.2. `$ rm ohdPlugins`

3.4.3. `$ ln –s <4.1.a>/ohd/plugins ohdPlugins`

3.5. Make a link for the OHD scripts at the same level as the FEWS bin and jre.

3.5.1. `$ cd /awips/chps_share/oc/<user>/`

3.5.2. `$ rm scripts`

3.5.3. `$ ln –s <4.1.a>/ohd/scripts scripts`

3.6. Test to make sure all workflows complete as expected. Raise any issues with HSD through FogBugz. Install on your Dev/Test FSS once satisfied with Dev/Test OC testing.

*4. FEWS Forecast Shell Installation and Testing for **Dev/Test** purposes*

NOTE: These instructions will walk you through installation and testing on a Dev/Test system. **Perform these actions on your Dev/Test system.**

4.1. Log in to your Dev/Test system's FSS machine (usually chps9) as user fews.

4.2. Stop the FSSs.

4.2.1. `$ cd /awips/chps_local/fss/??rfc/FSS00/mcproxy`
(?? is replaced with the 2 letter RFC acronym, e.g., ne)

4.2.2. `$ ./mcproxy.sh stop`

4.3. Repeat step 4.2 for each FSS instance (FSS01, etc).

4.4. Check the current OHD version. If up-to-date, the version should be 3.3.a.

4.4.1. `$ cd /awips/chps_local/ohd/`

4.4.2. `$ bin/resj –V`

4.5. From ../chps_local/ohd/ make a backup of the current OHD files and install the new bin. Make sure the FSS global properties file is pointing OHDBINDIR to the bin. The FSS global properties file can be found at /awips/chps_local/fss/***xx***rfc/FSSxx/FewsShell/***xx***rfc.

4.5.1. `$ mv bin bin_3.3.a`

4.5.2. `$ cp –dR <4.1.a>/ohd/bin .`

4.6. From ../chps_local/ohd/ make a backup of the current OHD FEWS explorer plugins (if it exists) and install the new plugins. Use the version number identified in step 4.4.2 above.

4.6.1. `$ mv plugins plugins_3.3.a`

4.6.2. `$ cp –dR <4.1.a>/ohd/plugins .`

4.7. From ../chps_local/ohd/ make a backup of the current OHD scripts (if it exists) and install the new scripts. Use the version number identified in step 4.4.2 above.

4.7.1. `$ mv scripts scripts_3.3.a`

4.7.2. `$ cp –dR <4.1.a>/ohd/scripts .`

4.8. Start the FSSs.

4.8.1. `$ cd /awips/chps_local/fss/??rfc/FSS00/mcproxy`
(?? is replaced with the 2 letter RFC acronym, e.g., ne)

4.8.2. `$ ./mcproxy.sh start`

4.9. Repeat step 4.8 for each FSS instance (FSS01, etc).

4.10. Test to make sure all workflows complete as expected. Raise any issues with HSD through FogBugz.

*5. Operator Client Installation for your **Operational systems***

NOTE: These instructions will walk you through installation on your Operational systems. **These actions will affect your Primary and Secondary (backup) Operational systems.**

5.1. Log in to your system as user fews.

5.2. Check the current version of the OHD software. If up-to-date, the version should be 3.3.a.

5.2.1. `$ cd /awips/chps_share/ohd/`

5.2.2. `$ bin/resj –V`

5.3. Make a backup of the current OHD files and install the new bin. Use the version number identified in step 5.2.2.

5.3.1. `$ mv bin bin_3.3.a`

5.3.2. `$ cp –dR <4.1.a>/ohd/bin .`

5.4. Make a backup of the current OHD FEWS explorer plugins and install the new plugins. Use the version number identified in step 5.2.2.

5.4.1. `$ mv plugins plugins_3.3.a`

5.4.2. `$ cp –dR <4.1.a>/ohd/plugins .`

5.5. Make a backup of the current OHD scripts (if it exists) and install the new scripts. Use the version number identified in step 5.2.2.

5.5.1. `$ mv scripts scripts_3.3.a`

5.5.2. `$ cp –dR <4.1.a>/ohd/scripts .`

5.6. Create a link for the OHD FEWS explorer plugins at the same level as the FEWS bin and jre.

5.6.1. `$ cd /awips/chps_share/oc/<user>`

5.6.2. `$ ln –s /awips/chps_share/ohd/plugins ohdPlugins`

5.7. Test to make sure all workflows complete as expected. Raise any issues with HSD through FogBugz. Install software on your FSS once satisfied with OC testing.

6. *FEWS Forecast Shell Installation for your **Operational systems***

NOTE: These instructions will walk you through installation on your Operational Systems. **These actions will affect your Primary and Secondary (backup) Operational systems.**

6.1. Log in to your **Secondary Operational system's FSS machine** (usually chps6) as user fews.

6.2. Stop the FSSs.

6.2.1. `$ cd /awips/chps_local/fss/??rfc/FSS00/mcproxy`
(?? is replaced with the 2 letter RFC acronym, e.g., ne)

6.2.2. `$ ./mcproxy.sh stop`

6.3. Repeat step 4.2 for each FSS instance (FSS01, etc).

6.4. Check the current version of the OHD software. If up-to-date, the version should be 3.3.a.

6.4.1. `$ cd /awips/chps_local/ohd/`

6.4.2. `$ bin/resj –V`

6.5. From ../chps_local/ohd/ make a backup of the current OHD files and install the new bin. Make sure the FSS global properties file is pointing OHDBINDIR to the bin. The FSS global properties file can be found at /awips/chps_local/fss/***xx***rfc/FSSxx/FewsShell/***xx***rfc.

6.5.1. `$ mv bin bin_3.3.a`

6.5.2. `$ cp –dR <4.1.a>/ohd/bin .`

6.6. From ../chps_local/ohd/ make a backup of the current OHD FEWS explorer plugins and install the new plugins. Use the version number identified in step 4.4.2.

6.6.1. `$ mv plugins plugins_3.3.a`

6.6.2. `$ cp –dR <4.1.a>/ohd/plugins .`

6.7. From ../chps_local/ohd/ make a backup of the current OHD scripts (if it exists) and install the new scripts. Use the version number identified in step 4.4.2.

6.7.1. `$ mv scripts scripts_3.3.a`

6.7.2. `$ cp –dR <4.1.a>/ohd/scripts .`

6.8. Start the FSSs.

6.8.1. `$ cd /awips/chps_local/fss/??rfc/FSS00/mcproxy`
(?? is replaced with the 2 letter RFC acronym, e.g., ne)

6.8.2. `$ ./mcproxy.sh start`

6.9. Repeat step 4.8 for each FSS instance (FSS01, etc).

6.10. Test to make sure all workflows complete as expected. Raise any issues with HSD through FogBugz.

6.11. Repeat steps 6.1 through 6.10, this time logging into your **Primary Operational system's FSS machine** (usually chps3)

Rolling Back an OHD Release

In the case where the OHD release needs to be rolled back to a previous version:

1. For an SA, delete the new bin and plugin links, and restore the old links and references in your SA global properties to the previous release (i.e. bin_3.3.a).
   1.1. `$ cd /awips/chps_share/sa/<user>/<new standalone>/Models/ohd`
   1.2. `$ rm bin`
   1.3. `$ ln –s <3.3.a>/ohd/bin bin`
   1.4. `$ cd /awips/chps_share/sa/<user>/`
   1.5. `$ rm plugins`
   1.6. `$ ln –s <3.3.a>/ohd/plugins ohdPlugins`

2. For an OC, delete the new bin and plugins directories, restore the old bin and plugins, and restore the references in your SA global properties to the previous release (i.e. bin_3.3.a).
   2.1. `$ cd /awips/chps_share/ohd/`
   2.2. `$ rm –r bin plugins`
   2.3. `$ mv bin_3.3.a bin`
   2.4. `$ mv plugins_3.3.a plugins`
   2.5. `$ mv scripts_3.3.a scripts`
3. For your FSS, stop the shell servers, delete the new bin and plugins directories, restore the old bin and plugins, and restore the references in your SA global properties to the previous release (i.e. bin_3.3.a). Finally, restart the shell servers.
   3.1. Follow steps in 4.2 above to shut down the FSS. Do this for each FSS instance.
   3.2. `$ cd /awips/chps_local/ohd/`
   3.3. `$ rm –r bin plugins`
   3.4. `$ mv bin_3.3.a bin`
   3.5. `$ mv plugins_3.3.a plugins`
   3.6. `$ mv scripts_3.3.a scripts`
   3.7. Follow steps in 4.8 above to restart the FSS. Do this for each FSS instance.